

Table A-24. Trends in total (Federal plus company and other) funds for performance of industrial basic research, applied research, and development in the U.S., in current and in constant dollars: 1953-2001

Page 1 of 2

Year	Total		Basic research		Applied research		Development	
	Current	Constant	Current	Constant	Current	Constant	Current	Constant
	dollars	1996	dollars	1996	dollars	1996	dollars	1996
[In millions of dollars]								
1953 ¹	3,630	18,857	151	784	726	3,771	2,753	14,301
1954 ¹	4,070	20,936	166	854	814	4,187	3,090	15,895
1955 ¹	4,640	23,458	189	956	928	4,692	3,523	17,811
1956	6,605	32,298	253	1,237	1,268	6,200	5,084	24,861
1957	7,731	36,588	271	1,283	1,670	7,903	5,790	27,402
1958	8,389	38,766	295	1,363	1,911	8,831	6,183	28,572
1959	9,618	43,958	320	1,463	1,991	9,100	7,307	33,396
1960	10,509	47,359	376	1,694	2,029	9,144	8,104	36,521
1961	10,908	48,610	395	1,760	1,977	8,810	8,536	38,039
1962	11,464	50,413	488	2,146	2,449	10,770	8,527	37,498
1963	12,630	54,913	522	2,270	2,457	10,683	9,651	41,961
1964	13,512	57,892	549	2,352	2,600	11,140	10,363	44,400
1965	14,185	59,651	592	2,489	2,658	11,177	10,935	45,984
1966	15,548	63,565	624	2,551	2,843	11,623	12,081	49,391
1967	16,385	64,994	629	2,495	2,915	11,563	12,841	50,936
1968	17,429	66,270	642	2,441	3,124	11,878	13,663	51,951
1969	18,308	66,357	618	2,240	3,287	11,914	14,403	52,204
1970	18,067	62,171	602	2,072	3,427	11,793	14,038	48,307
1971	18,320	60,026	590	1,933	3,415	11,189	14,315	46,904
1972	19,552	61,446	593	1,864	3,514	11,043	15,445	48,539
1973	21,249	63,241	631	1,878	3,825	11,384	16,793	49,979
1974	22,887	62,499	699	1,909	4,288	11,709	17,900	48,880
1975	24,187	60,422	730	1,824	4,570	11,416	18,887	47,182
1976	26,997	63,823	819	1,936	5,112	12,085	21,066	49,801
1977	29,825	66,248	911	2,024	5,636	12,519	23,278	51,706
1978 ¹	33,304	69,052	1,035	2,146	6,300	13,062	25,969	53,844
1979	38,226	73,160	1,158	2,216	7,225	13,828	29,843	57,116
1980 ¹	44,505	78,024	1,325	2,323	8,450	14,814	34,730	60,887
1981	51,810	83,069	1,614	2,588	10,699	17,154	39,497	63,327
1982 ¹	58,650	88,528	1,904	2,874	12,323	18,601	44,423	67,054
1983	65,268	94,756	2,223	3,227	13,927	20,219	49,118	71,310
1984	74,800	104,703	2,608	3,651	15,765	22,067	56,427	78,985
1985	84,239	114,315	2,862	3,884	18,255	24,773	63,122	85,659
1986 ²	87,823	116,615	4,047	5,374	19,759	26,237	64,017	85,005
1987 ²	92,155	118,787	4,324	5,574	19,813	25,539	68,018	87,675
1988 ^{2,3}	97,015	120,951	4,500	5,610	20,748	25,867	71,767	89,474
1989 ^{2,3}	102,055	122,559	5,216	6,264	22,691	27,250	74,148	89,045
1990 ^{2,3}	109,727	126,837	5,128	5,928	24,785	28,650	79,814	92,260
1991 ^{2,3}	116,952	130,439	7,837	8,741	27,446	30,611	81,669	91,087
1992 ^{2,4}	119,110	129,693	7,002	7,624	26,168	28,493	85,940	93,576
1993 ^{2,4}	117,400	124,827	6,919	7,357	24,686	26,248	85,796	91,224
1994 ^{2,4}	119,595	124,565	7,017	7,309	23,490	24,466	89,088	92,790

See explanatory information and SOURCE at end of table.

Table A-24. Trends in total (Federal plus company and other) funds for performance of industrial basic research, applied research, and development in the U.S., in current and in constant dollars: 1953-2001

Page 2 of 2

Year	Total		Basic research		Applied research		Development	
	Current dollars	Constant 1996 dollars	Current dollars	Constant 1996 dollars	Current dollars	Constant 1996 dollars	Current dollars	Constant 1996 dollars
	[In millions of dollars]							
1995 ^{2,4}	132,103	134,662	6,099	6,217	27,454	27,986	98,552	100,461
1996 ^{2,4}	144,667	144,667	8,207	8,207	29,241	29,241	107,218	107,218
1997 ^{2,4}	157,539	154,526	10,419	10,220	32,642	32,018	114,478	112,288
1998 ^{2,4,5}	169,180	163,934	6,421	6,222	32,438	31,432	130,320	126,279
1999 ^{2,4,5}	182,711	174,592	7,117	6,801	36,692	35,062	139,016	132,839
2000 ^{2,4,5}	199,539	186,677	7,490	7,007	39,082	36,512	152,967	143,107
2001 ^{2,4,5,6}	198,505	181,416	7,911	7,230	43,486	39,768	147,108	134,443

¹ Character-of-work estimates were made by the National Science Foundation. See National Science Foundation, *National Patterns of R&D Resources: 1996* (NSF 99-335).

² The character-of-work estimation procedure was revised for 1986 and later years and resulting statistics are not directly comparable with earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at <http://www.nsf.gov/sbe/srs/sird/start.htm>.

³ As a result of a new sample design, statistics for 1988-91 were revised after they were originally published and are not directly comparable with statistics for earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at <http://www.nsf.gov/sbe/srs/sird/start.htm>.

⁴ As a result of annual sampling, implemented to produce statistics that better reflect R&D performance among firms in nonmanufacturing industries and small firms in all industries, statistics for 1992 and later years are not directly comparable with statistics for earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at <http://www.nsf.gov/sbe/srs/sird/start.htm>.

⁵ Using data collected during recent cycles of the survey, NSF investigated a potential reporting anomaly for basic research and found that several large companies, known to develop and manufacture products, reported all R&D as basic research. This phenomenon prompted a renewed effort to strengthen character of work estimates produced from the survey. Consequently, improved edit checks were applied during statistical processing to produce the 2001 basic research, applied research, and development estimates. Also, estimates for 1998, 1999, and 2000 were recalculated.

⁶ Beginning with 2001, statistics for total and Federally funded industrial R&D exclude data for Federally Funded Research and Development Centers (FFRDCs).

NOTE: Gross domestic product (GDP) implicit price deflators were used to convert current dollars to constant (1996) dollars.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001